Business Statistics (BUSI 2305 2A1)

CREDIT
3 Semester Credit Hours (3 hours lecture, 0 hours lab)

MODE OF INSTRUCTION
Online

PREREQUISITE/CO-REQUISITE:
None

COURSE DESCRIPTION
Descriptive and inferential statistical techniques for business and economic decision-making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals; linear regression; and correlation analysis. Statistical software is used to analyze data throughout the course.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to

- Describe the random processes underlying statistical studies
- Calculate and use probability in solving business problems
- Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes
- Compute and interpret measures of central tendency and dispersion
- Calculate expected values to evaluate multiple outcomes of a decision
- Describe, interpret, and apply discrete and continuous probability distributions
- Construct and interpret confidence intervals for means and proportions
- Formulate, perform, and interpret hypotheses tests (one and two population parameters)
- Calculate, evaluate, and interpret simple linear correlations/regressions
- Use statistical software to graph, compute, and analyze statistical data

INSTRUCTOR CONTACT INFORMATION

Instructor:	Taylor Quinn
Email:	tquinn1@lit.edu
Office Phone:	409-247-5009
Office Location:	TA4 Room 103C

Approved: TQ/1.20.26

Office Hours: By appointment

REQUIRED TEXTBOOK AND MATERIALS

Statistical Techniques in Business & Economics by Lin, Marchal, and Wathen (McGraw Hill) 19th Edition, ISBN# 9781265773519

PARTICIPATION POLICY

Attendance will be taken online. The student is required to log into Blackboard at least three times a week. If a student does not log into Blackboard, that student is still responsible for all work and/or missing discussions. It is the student's responsibility to determine what it is he or she missed, not the instructors. *The instructor will not take additional time outside of class to inform a student of what occurred during the time they were not logged into Blackboard.* The best source of missed material or assignments is a classmate.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR

Week/ DATE	TOPIC	ASSIGNMENTS (Due on this Date)
Week 1-1/19-26	Course Introduction	
Week 2-1/26-2/1	Chapter 1: What is Statistics?	2/23/26
Week 3-2/2-2/8	Chapter 2: Describing Data: Frequency Tables & Distributions and Graphic Presentations	2/23/26
Week 4- 2/9-2/15	Chapter 3: Describing Data: Numerical Measures	2/23/26
Week 5-2/16-2/22	Chapter 4: Describing Data: Displaying and Exploring Data	3/23/26
Week 5-2/16-2/23	**Assignment & Quiz Ch. 1, 2, 3 (Exam 1 Ch. 1-3)**	**2/23/26**
Week 6-2/23-3/1	Chapter 5: A Survey of Probability Concepts	3/23/26
Week 7-3/2-3/8	Chapter 6: Discrete Probability Distributions	3/23/26
Week 8-3/9-3/15	Spring Break	
Week 9-3/16-3/22	Chapter 7: Continuous Probability Distribution	4/13/26
Week 9-3/16-3/23	**Assignment & Quiz Ch. 4, 5, 6 (Exam 2 Ch. 4-6)**	**3/23/26**
Week 10-3/23-3/29	Chapter 8: Sampling, Sampling Methods, and the Central Limit Theorem	4/13/26
Week 11-3/30-4/5	Chapter 9: Estimation and Confidence Intervals	4/13/26
Week 12-4/6-4/12	Chapter 10: One-Sample Tests of Hypothesis	5/11/26
Week 12-4/6-4/13	**Assignment & Quiz Ch. 7, 8, 9 (Exam 3 Ch. 7-9)**	**4/13/26**
Week 13-4/13-4/19	Chapter 10: One-Sample Tests of Hypothesis	5/11/26
Week 14-4/20-4/26	Chapter 11: Two-Sample Test of Hypothesis	5/11/26

Week 15-4/27-5/3	Chapter 11: Two-Sample Test of Hypothesis	5/11/26
Week 16-17-5/4-5/14	**Assignment & Quiz Ch. 10, 11 (Exam 4 Ch. 10-11) Final Exam**	**5/11/26**

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Four Exams 60%
- Quizzes 20%
- Assignments 20%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the LIT Online Experience page. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty.

ASSIGNMENTS/EXAMS POLICY

All assignments, quizzes, and exams should be completed and submitted in Blackboard by the date assigned by the instructor. Please refer to the course syllabi and Assignment/Exam Due Date link in blackboard for Assignment/Exam due dates and times. **Late assignments or exams will not be accepted.** Please use the link provided under the Weekly Assignments or the Exams link in Blackboard to complete your Assignments or Exams. Students that turn in late assignments or exams will receive a grade of '0'. If you are absent when an assignment or exam is due, you will receive a zero. Any missed assignments and/or exams will not be given the opportunity to be made-up.

COMMUNICATION POLICY

The instructor will respond to e-mail and voice mail communication within 48 hours Monday through Friday. Assignment grades will be published within 2 weeks of the assignment due date.

E-MAIL/VOICE MAIL ETIQUETTE

Students must use appropriate e-mail etiquette when corresponding with instructor; for example, complete sentences and a full subject line with your name/course name. Please allow the instructor Forty-eight (48) hours to respond to your emails or voicemails (with the exception of the weekends). Any emails or voicemails on the weekend will be answered when the instructor returns on Monday. Voice mail messages should be clearly spoken identifying student's name, course, and any return phone number.

IMPORTANT DATES

These dates are tentative and subject to change if necessary.

- First Day to submit Intent to Graduate: January 20, 2026
- Last day of drop WITHOUT academic penalty: February 20, 2026, Full Term
- First Day to Apply for Graduation: February 2, 2026
- Last Day to Apply for Graduation: April 3, 2026
- Last day of drop WITH academic penalty: April 13, 2026, Full Term
- Commencement/Graduation: May 14, 2026

COURSE REQUIREMENTS

Students must meet the following grade requirements to successfully complete and pass the courses:

- Program courses: A grade of **C** or better is required**.**
- General Education courses**:** A grade of **D** or better is required.

Students are responsible for determining whether each class falls under **Program courses** or **General Education courses** to ensure they meet the appropriate grade requirements.